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### Abstract

The invention belongs to the class of the X-ray radiation sources with small effective dimensions of the radiation emission regions and is designed to be used in X-ray microscopes, micro-defectoscopes, and X-ray tomographs. The device comprises the electron emitter 7, the focusing lenses 9,10, and the transparent anode 11, which can be positioned inside the radiation-source window and equipped with the cooling facility 17. The electron beam is focused either into a point or a dash behind the anode along the electron beam path. The center 16 of the diaphragm 15 of the X-ray beam is placed at the focus of the electron lens 10. Number of Claims: 7.

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